YAN Qiang (严 强)

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EDUCATION

Ph.D. in **Information Systems**   2008 ~ 2013
Singapore Management University, Singapore

SMU-CMU Exchange Program   2011 ~ 2012
Carnegie Mellon University, Pittsburgh, PA, USA

M.S. in **Computer Software and Theory**   2006 ~ 2009
Fudan University, Shanghai, China (CGPA 3.82/4.00)

B.S. in **Computer Science**   2003 ~ 2006
University College Dublin, Dublin, Ireland (First Class Honours)

B.Eng. in **Software Engineering**   2002 ~ 2006
Fudan University, Shanghai, China (CGPA 3.84/4.00, rank 1/120)

RESEARCH INTERESTS

Human Factors in Usable Security System Design
Mobile Security and Privacy
Security and Privacy Issues in Social Networks
RFID Security
System Security

PUBLICATIONS

Launching Generic Attacks on iOS with Approved Third-Party Applications
Jin Han, Su Mon Kywe, **Qiang Yan**, Feng Bao, Robert H. Deng, Debin Gao, Yingjiu Li, and Jianying Zhou
Accepted by *the 11th International Conference on Applied Cryptography and Network Security (ACNS 2013),* Canada, 2013.

Designing Leakage-Resilient Password Entry on Touchscreen Mobile Devices
Qiang Yan, Jin Han, Yingjiu Li, Jianying Zhou, and Robert H. Deng
In *Proceedings of the 8th ACM Symposium on Information, Computer and Communications Security (AsiaCCS 2013)*, China, 2013.

Think Twice before You Share: Analyzing Privacy Leakage under Privacy Control in Online Social Network (short paper)
Yan Li, Yingjiu Li, **Qiang Yan**, and Robert H. Deng
In *Proceedings of the 7th International Conference on Network and System Security (NSS 2013)*, Spain, 2013.

Comparing Mobile Privacy Protection through Cross-Platform Applications
Jin Han, **Qiang Yan**, Debin Gao, Jianying Zhou, and Robert H. Deng
In *Proceedings of the 20th Annual Network & Distributed System Security Symposium (NDSS 2013)*, USA, 2013.

Malware Protection on RFID-Enabled Supply Chain Management Systems in the EPCglobal Network (book chapter)
Qiang Yan, Yingjiu Li, and Robert H. Deng
Advanced Security and Privacy for RFID Technologies, chapter 10, IGI Global, USA, 2013.

On Limitations of Designing Leakage-Resilient Password Systems: Attacks, Principles and Usability
Qiang Yan, Jin Han, Yingjiu Li, and Robert H. Deng
In *Proceedings of the 19th Annual Network & Distributed System Security Symposium (NDSS 2012)*, USA, 2012. (**Distinguished Paper Award**)

Anti-Tracking in RFID Discovery Service for Dynamic Supply Chain Systems
Qiang Yan, Yingjiu Li, and Robert H. Deng
International Journal of RFID Security and Cryptography (IJRFIDSC), Informatics Society, 1(1/2), 2012, pp. 25-35.

On Detection of Erratic Arguments
Jin Han, **Qiang Yan**, Debin Gao, and Robert H. Deng
In *Proceedings of the 7th International ICST Conference on Security and Privacy in Communication Networks (SecureComm 2011)*, United Kingdom, 2011.

A Software-Based Root-of-Trust Primitive on Multicore Platforms
Qiang Yan, Jin Han, Yingjiu Li, Robert H. Deng, and Tieyan Li
In *Proceedings of 6th ACM Symposium on Information, Computer and Communications Security (AsiaCCS 2011)*, Hong Kong, 2011.

Pseudonym-based RFID Discovery Service to Mitigate Unauthorized Tracking in Supply Chain Management
Qiang Yan, Robert H. Deng, Zheng Yan, Yingjiu Li, and Tieyan Li
In *Proceedings of 2nd International Symposium on Data, Privacy and E-Commerce (ISDPE 2010)*, USA, 2010.

On the Potential of Limitation-Oriented Malware Detection and Prevention on Mobile Phones
Qiang Yan, Robert H. Deng, Yingjiu Li, and Tieyan Li
International Journal of Security and Its Applications (IJSIA), 4(1), 2010, pp. 21-30.

Insights into Malware Detection and Prevention on Mobile Phones
Qiang Yan, Yingjiu Li, Tieyan Li, and Robert H. Deng
In *Proceedings of International Conference on Security Technology (SecTech 2009)*, Korea, 2009.

A Comprehensive Study for RFID Malwares on Mobile Devices
Qiang Yan, Yingjiu Li, Tieyan Li, and Robert H. Deng
In *the 5th Workshop on RFID Security (RFIDsec 2009 Asia)*, Taiwan, 2009.

A Metadata-Driven Optimization for Sampling Simulation
Qiang Yan, Weihua Zhang, Lili Liu, Binyu Zang, and Chuanqi Zhu
Chinese Journal of Computers, 31(11), 2008, pp. 400-410.

COLLOQUIUMS

New Phone! New Threat? New Malware?
Qiang Yan
At *the 4th ANSES RahRah, Embedded Device Security*, ST Electronics (Info-Security) Pte Ltd, Singapore, 2010.

TEACHING EXPERIENCE

Teaching Assistant in **School of Information Systems, Singapore Management University**, Singapore

IS403: Advanced Information Security and Trust	Assoc. Prof. Xuhua DING	Term1, 2010~2011
IS302: Information Security and Trust	Assoc. Prof. Yingjiu LI	Term2, 2009~2010

Teaching Assistant in **Software School, Fudan University**, China

Introduction to Computer Systems II	Prof. Binyu ZANG	Term 2, 2007~2008
Introduction to Computer Systems I	Prof. Binyu ZANG	Term 1, 2007~2008
Compilers	Assoc. Prof. Weihua ZHANG	Term 1, 2007~2008
Introduction to Web Applications	Assoc. Prof. Weili HAN	Term 2, 2006~2007
Compilers	Prof. Binyu ZANG	Term 1, 2006~2007
Data Structure & Algorithm Design	Assoc. Prof. Zhongding JIANG	Term 1, 2005~2006
Introduction to Web Applications	Assoc. Prof. Weili HAN	Term 2, 2004~2005
Discrete Mathematics	Assoc. Prof. Yiming ZHAO	Term 1, 2004~2005

	Technologies/Tools	Years	Current Status
TECHNICAL SKILLS	C, Java, HTML, JavaScript, Office, LaTeX	4-10	Proficient
	C++, Python, Perl, PHP, OOP, Shell Scripting, Linux Programming	2-3	Skillful
	C#, Objective-C, MFC, ASP.NET, XML, MySQL, AJAX, HTML 5, CSS 3, x86/ARM Assembly Language	1-2	Experienced

REVIEWER AND EXTERNAL REVIEWER

CCS 2013 – 20th ACM Conference on Computer and Communications Security

ESORICS 2013 – 18th European Symposium on Research in Computer Security

WISA 2013 – 14th International Workshop on Information Security Applications

AsiaCCS 2013 – 8th ACM Symposium on Information, Computer and Communications Security

TDSC – IEEE Transactions on Dependable and Secure Computing, October, 2012

CCS 2012 – 19th ACM Conference on Computer and Communications Security

AsiaCCS 2012 – 7th ACM Symposium on Information, Computer and Communications Security

NTMS 2012 – 6th International Conference on New Technologies, Mobility and Security

INSCRYPT 2012 - The 8th China International Conference on Information Security and Cryptology

AsiaCCS 2011 – 6th ACM Symposium on Information, Computer and Communications Security

ICISS 2011 – 7th International Conference on Information Systems Security

ISC 2011 – 14th Information Security Conference

ISPEC 2011 – 7th Information Security Practice and Experience Conference

NSS 2011 – 5th International Conference on Network and System Security

WiSec 2011 – 4th ACM Conference on Wireless Network Security

WPES 2011 – 10th annual ACM workshop on Privacy in the electronic society

ACNS 2010 – 8th International Conference on Applied Cryptography and Network Security

AsiaCCS 2010 – 5th ACM Symposium on Information, Computer and Communications Security

ESSoS 2010 – 2nd International Symposium on Engineering Secure Software and Systems

ICICS 2010 – 12th International Conference on Information and Communications Security

JCST – Journal of Computer Science and Technology, August, 2010

SecureComm 2010 – 6th International Conference on Security and Privacy in Communication Networks

ACSAC 2009 – 25th Annual Computer Security Applications Conference

SCN – Journal of Security and Communications Networks, March, 2009

SELECTED HONORS AND AWARDS

Singapore Management University **Presidential Doctoral Fellowship**	2012 ~ 2013
The **Distinguished Paper Award** in the 19th Network & Distributed System Security Symposium (NDSS 2012), San Diego, California, USA	Feb '12
Singapore Management University **Postgraduate Research Scholarship**	2008 ~ 2013
PhD Overseas Training Residency at CMU, **LARC Scholarship**	Aug '11 ~ May '12
Excellent Graduate Award of Shanghai City	2006
University College Dublin **First Class Honours**	2006
Citigroup Scholarship for Finance and Information Technology	2004